

## **Listing and Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A ~~transdermal~~ substance delivery device, comprising:  
an apparatus containing the substance to be delivered and positioned substantially adjacent tissue;  
at least one ultrasonic transducer being sonically coupled to the substance containing apparatus and [[for]] generating at least one ultrasonic transmission for inducing that induces movement of the at least one substance from the substance containing apparatus and into [[a]] the tissue; and  
at least one sensor positioned with said at least one transducer to receive and receiving at least some of the ultrasonic transmissions reflected from said tissue or said at least one substance containing apparatus; [[and]]  
wherein, said ~~reflected~~ ultrasonic transmissions received by said at least one sensor are indicative of substance actually ~~moved into said tissue~~ liberated from the substance containing apparatus.
2. (Currently Amended) The ~~transdermal~~ substance delivery device of claim 1, wherein said ultrasound has a frequency in the range of about 20 KHz to 30 MHz.
3. (Currently Amended) The ~~transdermal~~ substance substance delivery device of claim 1, wherein said ultrasonic transmission has an intensity of about 125-mW/sq. cm to 3.0 W/sq. cm.
4. (Currently Amended) The ~~transdermal~~ substance delivery device of claim 1, wherein said ultrasound utilizes an alternating waveform.
5. (Currently Amended) The ~~transdermal~~ substance delivery system of claim 4, wherein said alternating waveform comprises a sawtooth waveform.

6. (Currently Amended) The ~~transdermal~~ substance delivery device of claim 4, wherein said alternating waveform comprises a square waveform.

7. (Currently Amended) The ~~transdermal~~ substance delivery device of claim 1, wherein said ultrasound is applied substantially continuously.

8. (Currently Amended) The ~~transdermal~~ substance delivery device of claim 1, wherein said ultrasound is pulsed.

9. (Currently Amended) The ~~transdermal~~ substance delivery device of claim 1, further comprising a control device.

10. (Currently Amended) A method for ~~transdermal~~ substance delivery, comprising:  
placing at least one substance substantially adjacent to ~~[[the]]~~ an external surface of a tissue;

generating at least one ultrasonic transmission from at least one ultrasonic transducer, wherein the generated at least one ultrasonic transmission for inducing induces ~~transdermal~~ delivery of said at least one substance through said external surface and into said tissue; and

~~positioning at least one sensor with said at least one transducer to sense sensing reflections of the~~ ultrasonic transmissions ~~reflected from either said tissue or said at least one substance adjacent to the external surface of the tissue using at least one sensor positioned with the at least one ultrasonic transducer; [[and]]~~

wherein, said ~~reflected sensed part of the~~ ultrasonic transmissions ~~received by said at least one sensor~~ are indicative of substance actually moved into said tissue.

11. (Original) The method of claim 10, wherein said ultrasonic transmission has a frequency in the range of about 20 KHz to 30 MHz.

12. (Original) The method of claim 10, wherein said ultrasonic transmission has an intensity of about 125-mW/sq. cm to 3.0 W/sq. cm.

13. (Original) The method of claim 10, wherein said ultrasonic transmission utilizes an alternating waveform.

14. (Original) The method of claim 13, wherein said alternating waveform comprises a sawtooth waveform.

15. (Original) The method of claim 13, wherein said alternating waveform comprises a square waveform.

16. (Original) The method of claim 10, wherein said ultrasonic transmission is applied substantially continuously.

17. (Original) The method of claim 10, wherein said ultrasonic transmission is pulsed.

18. (Original) The method of claim 10, further comprising a control device.

19. (Currently Amended) The ~~transdermal~~ substance delivery device of claim 9, wherein said control device measures the amount of said at least one substance delivered into said tissue based on said reflected ultrasonic transmissions received by said at least one sensor.

20. (Previously Presented) The method of claim 18, wherein said control device measures the amount of said at least one substance delivered into said tissue based on said reflected ultrasonic transmissions received by said at least one sensor.